

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
10 October 2002 (10.10.2002)

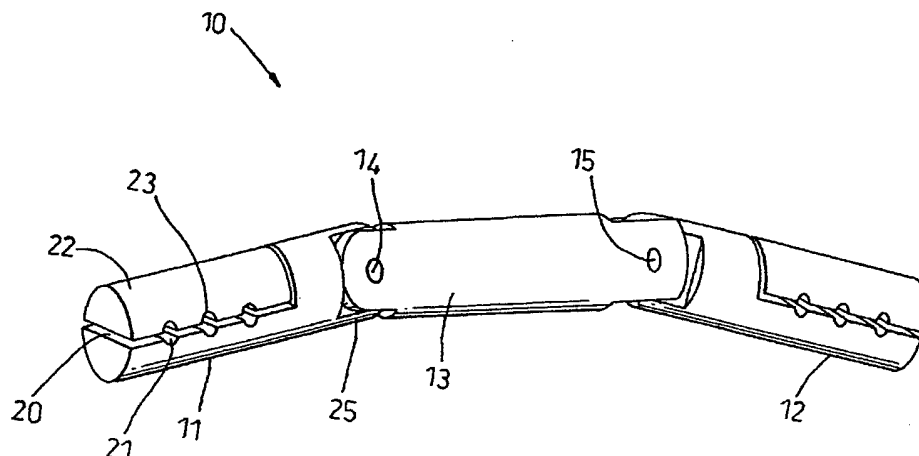
PCT

(10) International Publication Number  
**WO 02/078554 A1**

- (51) International Patent Classification<sup>7</sup>: **A61B 17/64** (74) Agent: **CHARIG, Raymond, J.**; Eric Potter Clarkson, Park View House, 58 The Ropewalk, Nottingham NG1 5DD (GB).
- (21) International Application Number: **PCT/GB02/00844**
- (22) International Filing Date: 27 February 2002 (27.02.2002)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:  
0107708.0 28 March 2001 (28.03.2001) GB
- (71) Applicant (for all designated States except US): **IMPERIAL COLLEGE INNOVATIONS LTD.** [GB/GB]; 47 Prince's Gate, Exhibition Road, London SW7 2QA (GB).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): **DRAPER, Edward** [GB/GB]; 771 London Road, Loudwater, Buckinghamshire HP11 1HW (GB).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:  
— with international search report

[Continued on next page]

(54) Title: **BONE FIXATED, ARTICULATED JOINT LOAD CONTROL DEVICE**



(57) Abstract: A load control device can be attached to bones on either side of an articulated joint in order to control the forces and loads experienced by the joint. The device comprises an apparatus for controlling the load on articular cartilage of a human or animal joint and includes: a first fixation assembly for attachment to a first bone; a second fixation assembly for attachment to a second bone; a link assembly coupled to the first fixation assembly by a first pivot and coupled to the second fixation assembly by a second pivot, the first and second fixation assembly thereby each being angularly displaceable relative to the link assembly. The apparatus enables a clinician to effectively control the environment of cartilage in a joint during a treatment episode.

WO 02/078554 A1

WO 02/078554 A1



---

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*